



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2001

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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WISCONSIN, Southeast

Lafayette County

5 N Shullsburg 03 1825CST 0 0 50K Hail (0.75)

Dodge County

Mayville to Theresa 03 2040CST
2045CST Thunderstorm Wind (G56)

Washington County

2 W Allenton to Allenton 03 2055CST Hail (0.75)

Scattered severe thunderstorms affected parts of south-central and southeast Wisconsin during the evening hours of July 3rd. Damaging straight-line winds and large hail were reported. The hail near Shullsburg (Lafayette Co.) damaged some of the corn crop. Two (2) inches of rain accompanied the hail near Shullsburg. Powerful downburst winds (estimated around 65 mph/56 knots/) toppled large trees and power lines in the Mayville to Theresa area of eastern Dodge county. Synoptically, a west-east orientated cold front slid southeast through southern Wisconsin. Air temperatures ahead of the front were 80 to 85 and surface dewpoints were in the mid to upper 60s. There was distinct veering of the winds across the front. In addition, about 50 knots of deep layer wind shear and a CAPE of 1400 existed. The wet bulb zero height was 9500 AGL.

Jefferson County

1 E Lake Mills 17 0747CST 0 0 25K Lightning

Lightning struck a home, resulting in a fire which damaged the roof and attic

WIZ052-060-066-071>072 Sheboygan - Ozaukee - Milwaukee - Racine - Kenosha

18 0000CST
0600CST 0 0 Fog

Dense fog developed overnight, lowering visibilities to 1/8 to 1/4 mile. Dozens of airplane flights at local airports were delayed. About a dozen vehicle accidents were noted in area newspapers.

WIZ052-060-066-071>072 Sheboygan - Ozaukee - Milwaukee - Racine - Kenosha

18 2200CST
19 0700CST 0 0 Fog

Dense fog developed overnight once again. Visibilities were reduced to 1/8 to 1/4 mile. Dozens of airplane flights were delayed, and there were about a dozen vehicle accidents.

WIZ051-058>059-064>065-070 Fond Du Lac - Dodge - Washington - Jefferson - Waukesha - Walworth

19 0200CST
0700CST 0 0 Fog

Dense fog developed overnight once again. Visibilities were reduced to 1/8 to 1/4 mile. About a dozen vehicle accidents were noted in local newspapers.

WIZ059-064>066-068>072 Washington - Jefferson - Waukesha - Milwaukee - Green - Rock - Walworth - Racine - Kenosha

21 0000CST
22 1500CST 2 0 Excessive Heat

The first, significant round of excessive heat for the summer of 2001 affected parts of south-central and southeast Wisconsin. Medical examiner reports indicated that two people died from heat exposure in Milwaukee County - a female (52), and a male (34). Their deaths occurred at the end of this heat event, or a couple days later. At least eighty (80) people who attended the Country Thunder music festival in western Kenosha County were medically treated on-site for the effects of heat exhaustion. Across the remainder of southeast Wisconsin, dozens of other people were treated for heat exhaustion at hospitals. Overnight heat index values were in the 80 to 90 range, and reached 105 to 110 for several hours during the afternoon hours on the 21st and 22nd. Maximum air temperatures were in the lower 90s while surface dewpoints were in the lower to mid 70s. Overnight minimum air temperatures were in the lower to mid 70s. Although the core period of the excessive heat was on the 21st and 22nd, very warm and muggy conditions actually started on the 20th and persisted through the 23rd. Milwaukee's maximum and minimum air temperatures at Mitchell Field for this period were: 87/71, 90/76, 90/71, 91/74. While excessive heat conditions were observed well inland, those locations near the Lake Michigan shoreline were slightly cooler. The long duration of this heat wave was a contributing factor toward the 2 deaths. M34PH, F52PH



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WISCONSIN, Southeast

Washington County

Hartford to Germantown	22	1340CST 1405CST			0	0	30K	Thunderstorm Wind (G52)
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Ozaukee County

2 W Cedarburg to Mequon	22	1405CST 1415CST			0	0	30K	Thunderstorm Wind (G52)
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Walworth County

2 E Zenda	22	1435CST			0	0		Thunderstorm Wind (G52)
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Kenosha County

Twin Lakes	22	1440CST			0	0		Thunderstorm Wind (G52)
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Kenosha County

Twin Lakes	22	1443CST			0	4		Lightning
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Scattered severe thunderstorms rumbled through southeast Wisconsin during a very warm and muggy afternoon. Powerful, downburst, straight-line winds (estimated around 60 mph /52 knots/) accompanied the storms, resulting in toppled trees, power lines, and power poles. In addition, 4 people were injured when lightning struck tent support poles at the Country Thunder music festival near Twin Lakes in western Kenosha County. They were holding the poles as they waited out the powerful thunderstorm winds affecting that area. About 11,200 customers across the southern parts of Washington and Ozaukee Counties lost electrical power due to the toppled trees and power lines.

WIZ051>052-058>060-
064>066-069>072

Fond Du Lac - Sheboygan - Dodge - Washington - Ozaukee - Jefferson - Waukesha - Milwaukee - Rock - Walworth - Racine - Kenosha

30		0300CST 0700CST			0	0		Fog
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Dense fog developed overnight, reducing visibilities to 1/8 to 1/4 mile. Dozens of airplane flights were delayed. About a dozen vehicle accidents were noted in local newspapers. As with many other dense fog episodes in southern Wisconsin, rain (showers and thunderstorms) fell the day before. Light east-northeast surface airflow combined with clear skies to allow for the dense fog development.

WIZ046>047-051>052-
056>059-062>065-
067>070-072

Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Iowa - Dane - Jefferson - Waukesha - Lafayette - Green - Rock - Walworth - Kenosha

31		1100CST 2359CST			0	0		Excessive Heat
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This was the second period of excessive heat, during the summer of 2001, to affect parts of south-central and southeast Wisconsin. Afternoon heat index values on the 31st reached 105 to 110 for several hours, while they stayed in the 85 to 100 range during the evening hours. maximum afternoon air temperatures were in the lower to mid 90s, with surface dewpoints in the lower to mid 70s. Although official numbers are not available, several people were probably treated at hospitals due to the affects of heat exhaustion. For July 31, 2001, Madison (Dane Co.) recorded a maximum air temperature of 95, tying the daily record set back in 1988. Ft. Atkinson (Jefferson Co.) and Wisconsin Dells (Columbia Co.) both registered a high of 97. The 31st was the hottest day, to date, for the summer of 2001. Several utility companies reported new daily record demands for electricity, and public swimming pools reported large numbers of swimmers. The excessive heat on the 31st persisted to about 9pm on August 1, 2001.